AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of claims:

1-29. (canceled).

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- 30. (previously presented) A stable gene formulation lyophilized from an an aqueous solution comprising:
 - a) an atelocollagen;
 - b) a closed circular plasmid vector comprising a desired gene; and
 - c) an ingredient selected from the group consisting of arginine, lysine, asparatic acid, glutamine, glutamic acid, histidine, proline, maltitol, lactose, glucose, sorbitol, xylitol, and a salt thereof.
- 31. (previously presented) The stable gene formulation of claim 30 wherein the ingredient is selected from the group of arginine, asparatic acid, glutamine, glutamic acid, histidine, glucose, sorbitol, xylitol, and a salt thereof.

32. (previously presented) The stable gene formulation of claim 30, further comprising a cationic lipid, a cationic polymer, or a hydrophobic polymer.

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- 33. (previously presented) The stable gene formulation of claim 30, wherein the formulation is in a rod form.
- **34.** (previously presented) A stable gene formulation lyophilized from an aqueous solution comprising:
- a) a closed circular plasmid vector comprising a desired gene; and
 - b) citric acid, tartaric acid or a mixture thereof.
- 35. (previously presented) The stable gene formulation of claim 34, further comprising an atelocollagen.
- **36.** (previously presented) The stable gene formulation of claim 34 or 35, further comprising a cationic lipid, a cationic polymer, or a hydrophobic polymer.
- 37. (new) A method for stabilizing a closed circular DNA molecule in a formulation, comprising:

adding citric acid or tartaric acid, or a salt thereof, to an aqueous solution of the closed circular DNA molecule and atelocollagen, and

lyophilizing the solution.

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